

**Urban Nonpoint Source & Storm Water (UNPS&SW) Program
Construction Grant Application – CY 2008 Funding**

Form 8700-299 (R 1/07)

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Notice: Application is hereby made to the Wisconsin Department of Natural Resources, Bureau of Watershed Management for grant assistance consistent with s. 281.66, Wis. Stats., and Chapter NR 155, Wis. Adm. Code. Collection of this information is authorized under the authority of s. 281.66, Wis. Stats. The information contained in this form will be used for program budget analysis and project evaluation in the Urban Nonpoint Source Water Pollution Abatement and Storm Water Management Grant Program. Personally identifiable information collected will be used for program administration and may be made available to requesters as required under Wisconsin's Open Records Law [ss. 19.31 - 19.39, Wis. Stats.]. *Unless otherwise noted, all citations refer to Wisconsin Administrative Code.*

Instructions: Complete all sections as applicable.

Applicant Information

Governmental Unit Applying: (name & type) (example: Madison, Town of)

Manitowoc, City of

Name of Authorized Representative (First, Last) Valerie Mellon, P.E.			Name of Governmental Contact Person (First, Last) (if different) Janet Sosnosky		
Title Director of Public Works / City Engineer			Title Stormwater Aide		
Area Code + Telephone Number (920) 686-6910			Area Code + Telephone Number (920) 686-6910		
Area Code + Fax Number (920) 686-6906			Area Code + Fax Number (920) 686-6906		
E-Mail Address vmellon@manitowoc.org			E-Mail Address jsosnosky@manitowoc.org		
Mailing Address - Street or Route 900 Quay Street			Mailing Address - Street or Route 900 Quay Street		
City Manitowoc	State WI	Zip Code 54220	City Manitowoc	State WI	Zip Code 54220

Consulting Firm Name (if applicable)

MSA Professional Services, Inc.

Consulting Contact Person Name

Gina M. Droessler

Title

Water Resources Engineer

Area Code + Telephone Number

(608) 242 - 7779

Area Code + Fax Number

(608) 242 - 5664

E-Mail Address

gdroessler@msa-ps.com

Mailing Address - Street or Route

2901 International Lane, Suite 300

City Madison	State WI	Zip Code 53704
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DNR Use Only

Project Information

A. Project Name

South 41st and Custer Street Water Quality Pond Design and Construction

This document was drafted by the Department of Natural Resources.

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Project Information (continued)

B. Location of Project Area

County: Manitowoc

Minor Civil Division (city, town, village, example: Wrightstown, Village of)	Town (N)	Range (E/W)	Section	Quarter	Quarter/ Quarter	Latitude (N)	Longitude (W)
Manitowoc, City Of	19	23E	25	NW	SW	44 5' 13"	87 41' 60"

Method for Determining Latitude & Longitude (check one)

☐ GPS☒ DNR WebView or Surface Water Data Viewer☐ Other (specify):

C. Project Summary and Description

This grant application is for the design and construction of a wet detention pond on a City owned vacant lot along the southwest corner of South 41st Street & Custer Street within the City of Manitowoc, Wisconsin. Runoff from this pond will discharge into the Lower Manitowoc River watershed, which is located within the Lakeshore Basin.

The water quality need for nonpoint source control in this basin has been documented in the Lakeshore State of the Basin Report (WDNR, 2001), which identifies nonpoint source pollution from stormwater runoff as a high priority concern throughout the basin. According to the State of the Basin report, the Lower Manitowoc River has been ranked as "high" priority for control of nonpoint sources. Additional water quality need for this project stems from the fact that the City of Manitowoc is located in eastern Wisconsin along Lake Michigan. The majority of drinking water supplied to Manitowoc Public Utilities more than 33,000 customers is treated source water from Lake Michigan. As such, improving the quality of runoff from the areas contributing water to this public drinking water source has been identified as a priority by the WDNR. (WDNR Bureau of Drinking Water and Groundwater, 2003, *Source Water Assessment for Manitowoc Public Utilities*). Finally, the pollutant removal achieved by this project will contribute towards achieving the 40% reduction in total suspended solids in runoff from existing urban areas discharged to waters of the state required by the City's municipal WPDES permit.

The South 41st Street & Custer Street Pond will provide water quality treatment for a 52.7-acre watershed within the City, by reducing non-point source pollutants such as suspended solids, nutrients and metals.

This project will include a design, landscaping, and construction of the proposed wet basin according to the WDNR Conservation Practice Standard for Wet Detention Basins (Code 1001). The project will include excavation, grading, outlet construction and site stabilization.

D. Watershed & Waterbody (see Attachment A)

Watershed Name

Lower Manitowoc River

Watershed Code

MA02

Primary Waterbody

Manitowoc River

Note: If the project is in more than one watershed, submit a separate application for each watershed, unless this application is for a high-efficiency street sweeper.

Yes No

E. Pro-rating for Existing versus New Development

☒☐

Project will serve existing development only. If no, provide attachments and the following:

100%

Percentage of design volume from existing development. (change default % if necessary)

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Project Information (continued)

F. Request for Funding of Land Acquisition or Easements

- ☐ ☒ Requesting funding for either land acquisition or purchase of easements as part of this application to support a structural urban best management practice (BMP). If yes, attach the property acquisition proposal, as defined in **Attachment G**, to the completed application form.

G. Request for Retroactive Funding for Design

- ☐ ☒ Requesting reimbursement for design costs that have been or will be incurred before issuance of the grant. See Instructions for required design approval process.

H. Request for Funding Force Account Work

- ☐ ☒ Requesting reimbursement for technical services to be performed by governmental unit staff (force account).

I. Endangered and Threatened Resources, Historic Properties and Wetlands

Check "Yes" for any of the following the governmental unit knows to occur where the project disturbs land:

- ☐ ☒ 1. There are endangered or threatened resources, as identified in s. 29.604, Wis. Stats., and ch. NR 27 in the project area.
- ☐ ☒ 2. There are archaeological sites, historical structures, burial sites, or other historic places identified in s. 44.45, Wis. Stats., in the project area.
- ☐ ☒ 3. There are wetlands in the project area that are governed by water quality standard provisions of ch. NR 103 and for which mitigating measures should be taken to minimize the impacts.

J. Environmental Contamination

- ☐ ☒ The applicant is aware that there is environmental contamination of the soil and/or groundwater or potential for contamination in the project area.

K. Alternative Funding Possibility

- ☐ ☒ This applicant requests that the DNR also submit a copy of this application to the Clean Water Fund loan program.

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Part I. Screening Requirements

- Yes No **A. Map**
- ☒ ☐ An 8.5" x 11" topographic map from USGS or the DNR viewers shoring the project area is attached.

B. Best Management Practices (BMPs) For Which Funding Is Requested (check all that apply)

- ☒ Detention Basin
- ☐ Wetland Basin
- ☐ Filtration Practice
- ☐ Infiltration Practice
- ☐ Property Acquisition – Fee Title
- ☐ Property Acquisition – Easement
- ☐ Accelerated or High-efficiency Street Sweeper
- ☐ Shoreline Habitat Restoration for Developed Areas
- Streambank/Shoreline Protection:
- ☐ Rip-Rapping
- ☐ Shaping and Seeding
- ☐ Other Streambank/Shoreline Protection (including Bio-engineering) - specify below
- ☐ Other (specify):

(see **Attachment D** for additional BMP information)

C. Filters

Note: The governmental unit must be able to answer "Yes" or "N/A" (Not Applicable), to each of the following to be eligible for a grant.

- Yes No
- ☒ ☐ 1. Project is in an urban area as identified in **Attachment B**.
- ☒ ☐ 2. Project will be completed within 24 months of the start of the grant period.
- ☒ ☐ 3. Staff and contractors designated to work on this project have adequate training, knowledge, and experience to implement the proposed project.
- ☒ ☐ 4. Staff or contractual services, in addition to those funded by this grant, will be provided if needed.
- ☒ ☐ 5. Best management practices constructed under this grant will not work at cross-purposes to (are consistent with) non-agricultural performance standards under ch. NR 151. (see **Attachment E**)
- ☒ ☐ 6. The local DNR Regional Nonpoint Source Coordinator (see **Attachment C**) has been contacted about this project.

Name of the Regional Nonpoint Source Coordinator Contacted	Date Contacted	Subject of Contact
Dick Sachs	4/10/07	Intent to Apply for Const. Grant
	4/11/07	Questions concerning Application

- ☒ ☐ 7. Construction Ordinance
- Local regulations and/or intergovernmental agreements are in place, or will be developed prior to the end of the project period, to administer and enforce construction erosion controls in the governmental unit consistent with the non-agricultural performance standards in s. NR 151.11.
- ☒ ☐ 8. Post-Construction Ordinance
- Local regulations and/or intergovernmental agreements are in place, or will be developed prior to the end of the project period, to administer and enforce post construction runoff from areas of new development and re-development in the governmental unit consistent with the non-agricultural performance standards in s. NR 151.12.

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Part I. Screening Requirements (continued)

Yes No NA

☐ ☐ ☒

9. If this is an application to construct ponds in navigable streams or in wetlands, the necessary waterway or wetland permit (chs. 30 or 281, Wis. Stats.) has been received. If yes, give the docket number and date of issuance.

Docket Number

Date of Issuance

☒ ☐

☐ ☐

10. a. The grant application is for a local governmental unit having jurisdiction over the project area.
b. The grant application is for a local governmental unit **not** having jurisdiction over the project area and both of the following conditions are met:
- The applicant is required to obtain a permit under subchapter I of ch. NR 216.
 - Inter-governmental agreements are in place, or will be put in place prior to the end of the project period, to assure urban best management practices included on the grant are installed and maintained (see **Attachment J**).

Note: A governmental unit is considered to have jurisdiction over the project area if it has control over the construction or long-term maintenance.

☐ ☐ ☒

11. If the applicant is the University of Wisconsin Board of Regents, the project is for practices, techniques or measures to control storm water discharges on a University of Wisconsin System campus located in a municipality that meets both of the following criteria:
- is required to obtain a municipal storm water permit under ch. NR 216 and
 - is located either in a priority watershed or lake area identified under s. 281.65, Wis. Stats., or in an area of concern as identified by the International Joint Commission under the Great Lakes Water Quality Agreement.

If the governmental unit answered "No" to any of the items in Question C above, stop here. This project is ineligible.

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Part II. Minimum Qualifications

Question 1. Fiscal Accountability

A. Timeline and Source of Staff

For each applicable milestone listed below, fill in the appropriate data:

Milestone	Target Completion Date (month/year)	Source of Staff
Completion of design	2/08	Consultant
Obtaining required permits	3/08	Consultant and City Engineer
Landowner contacts	1/08	City Engineer
Bidding	4/08	City Engineer
DNR approvals	5/08	Consultant and City Engineer
Contract signing	5/08	City Engineer
BMP construction	6-9/08	Consultant
Site inspection and certification	9/08	Consultant
Project evaluation	10/08	Consultant and City Engineer

B. Adequate Financial Budget

Provide the following information for the project. The state share may not exceed 50% of eligible costs. The grant amount is capped at \$150,000 for the installation of eligible BMPs and \$50,000 for property acquisition.

FINANCIAL BUDGET TABLE

A	B	C
Project Activity for Which <u>DNR Funding</u> is Requested	Estimated Total Cost (\$)	Amount from Column B Eligible for DNR Cost Sharing (\$)
Construction Components:		
Mobilization	3,450	3,450
Clearing and Grubing	4,750	4,750
Erosion Control Systems	4,600	4,600
Excavation	65,000	65,000
Outlet Control Devices	6,900	6,900
Heavy Rip-Rap (w/filter fabric)	500	500
Landscaping	9,500	9,500
Construction Management & Inspection Services	9,500	9,500
1. Construction Subtotal	\$104,200	\$104,200
2. Design	8,500	8,500
3. Storm Sewer Reroute	54,500	54,500
4. Structure Removal	-	-
5. Subtotal [add rows 1-4]	\$167,200	\$167,200
6. Property Acquisition: Fee Title & Easement	\$0	\$0
7. Grand Total [add rows 5 & 6]	\$167,200	\$167,200

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Part II. Minimum Qualifications (continued)

Cost-Sharing Worksheet

Eligible Costs:

Multiply the eligible costs (column C) by the percent for proration (if applicable) and the applicable cost-share rate. Enter the result in the column on the right.

8. Construction/Design

9. Property Acquisition

Prorate %	Cost-Share %	
100%	50%	\$ \$83,600
100%	50%	\$ 0

Cap Test:

10. Construction/Design: Lesser of (8) or \$150,000

11. Property Acquisition: Lesser of (9) or \$50,000

12. Maximum State Share [(10)+(11)]

\$ \$83,600
\$ 0
\$ \$83,600

State & Local Share:

13. Requested State-Share Amount (Requested Grant Amount)

14. Local-Share Amount [Grand Total (7), column B less (13)]

\$ \$83,600
\$ \$83,600

Local-Share Source(s):

Included within the City of Manitowoc Proposed General Budget for 2008. Usually budgets are only 1 year.

(See 3A.1)

Method(s) Used to Calculate Cost Estimates:

Costs based upon construction estimates from similar ponds constructed within the City of Manitowoc, cost adjustments were made based upon the rate of inflation.

C. Cost-Effectiveness

1. Tangible Benefits

a. Primary Benefit:

List the pollutants to be controlled by the project.

This project will reduce the total suspended solids, nutrient and heavy metals loading to the Manitowoc River and ultimately Lake Michigan, by routing City storm sewer to the proposed wet detention basin.

b. Secondary Benefits:

Select the following secondary benefits, which will be achieved by implementing this project. (check all that apply)

- ☒ Fish and wildlife habitat enhancement
- ☐ Enhancements to recreation
- ☐ Public safety
- ☒ Economical operation, economical maintenance and enhanced life expectancy of the BMP
- ☐ Other (specify):

2. Cost-Effectiveness

Explain why the proposed project is cost-effective considering the environmental benefit(s) and cost of the project.

The detention pond will be designed in accordance with DNR Conservation Practice Standard 1001, Wet Detention. Wet detention is accepted as a cost effective method to control suspended solids and attached pollutants. The proposed project is located on a vacant City owned lot near a large trunk City storm sewer, which can be easily routed to the proposed basin area, enabling the pond to treat a large existing urban area within the City.

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Part II. Minimum Qualifications (continued)

Yes No 3. Alternatives

☒ ☐

a. There is more than one way to achieve the benefits checked above. If no, go to part b.

1) If **yes**, complete the following table with information for the alternative governmental unit have chosen and one or two other alternatives. Note that the table requires information about the cost and pollutant load/potential reductions.

Alternatives Analysis				
	A	B	C	D
	Alternative	Cost	Effectiveness	(B ÷ C) Cost-Effectiveness
		Estimated Amount	Estimated % of Pollutant Load Reduction	
1	Wet Pond – City owned (SE of 41 st and Custer St.)	\$167,200	75 %	222,930
2	Wet Pond – On portion of dev. Industrial property west of Alt. 1	\$297,100	75 %	396,130
3	(4) Downstream Defenders on City owned Parcel	\$328,500	40 %	821,250

2) If the governmental unit is not choosing the alternative with the lowest ratio of cost to pollutant load/potential reductions, explain why it was not chosen in terms of any of the following: feasibility; secondary benefits potential; or other mitigating factors.

N/A

b. If the answer to part 3.a. was **no**, explain why there is no other reasonable alternative to achieve the reduction in pollutant loading/potential or the secondary benefits checked above.

N/A

Question 2. Project Evaluation Strategy

Pre- and post-project evaluation measures used to ensure success in meeting project goals.

A. Modeling & Measures of Change

The applicant must agree to provide a description of the modeled results or changes in pollution potential in the final project report. The project evaluation strategy will be based on comparing pre- and post-project changes in modeled pollutant loading to water resources or will be based on the quantity of units managed.

Check all that apply in the table below.

	Priority for Developed Urban Area	Units of Measure	Recommended Measurement Method
<input checked="" type="checkbox"/>	20-40% Reduction in TSS	Pounds TSS reduced	SLAMM, P-8
		% TSS reduction	
<input type="checkbox"/>	Infiltration	% Pre-development stay-on volume	Recarga, SLAMM, P-8
		Cubic feet stay-on volume	
<input checked="" type="checkbox"/>	Peak flow discharge	Change in cubic feet per second	TR-55 or equivalent
<input type="checkbox"/>	Protective areas	Feet of bank protected	count
<input type="checkbox"/>	Fueling & maintenance areas	Oily sheen presence	visual assessment
<input type="checkbox"/>	Streambank	Tons of bank erosion reduced	NRCS bank erosion formula
		Feet of bank protected	count
<input type="checkbox"/>	Other (specify)		

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Part II. Minimum Qualifications (continued)

- Yes No **B. Monitoring** (not eligible for cost sharing at this time)
- ☐ ☒ The project evaluation strategy will provide pre- and post-project information from water quality monitoring. If yes, check all that apply below.
- ☐ The project will evaluate the physical habitat, fisheries, biological, or chemical conditions, including temperature and coliform bacteria.
- ☐ A one-page summary of the monitoring strategy is attached.
- C. Additional Monitoring**
- ☐ ☒ The applicant is willing to participate with the Department to do monitoring in the project area should cost sharing become available.

Question 3. Evidence of Local Support

The level of local support that currently exists for the proposed project.

- Yes No **A. Government**
- ☐ ☒ 1. a. The local-share funds for the construction/installation expenses are already included specifically in an adopted budget.
- ☒ ☐ b. The local-share funds for the construction/installation expenses are or will be included in a proposed budget.
- ☐ ☒ 2. The governmental unit has already conducted public information activities within the project area for this practice.

If yes, provide details regarding the nature of the opportunity for public reaction the governmental unit provided and indicate the general public support or **non**-support for the project that was indicated.

B. Landowners

1. The governmental unit:
- ☒ ☐ a. already owns, or holds an easement for, the land on which the project is to be installed.
- ☐ ☒ b. is submitting with the application a list of landowners, occupants, or tenants that occupy the property and information indicating each party's willingness to sell or ease the necessary parcel.
- ☒ ☐ 2. Evidence is attached of **citizen** (non-governmental) support for the project (such as letters from the neighborhood association, a civic group or an environmental organization).

Question 4. Basin Priorities (check one)

- ☐ **A. Clean Water Act s. 303(d) List of Impaired Waters**
Project with water quality goals directly dealing with a waterbody (lake or stream) on the latest Clean Water Act (CWA) s. 303(d) List of impaired waters, where the cause of the water quality impairment is nonpoint source pollution, **and** the project will reduce the type of nonpoint source pollutants for which the water is listed.
- ☐ **B. Outstanding and Exceptional Resource Waters**
Waterbody is included in s. NR 102.10 (Outstanding Resource Waters) and/or s. NR 102.11 (Exceptional Resource Waters).
- ☒ **C. NPS Rankings**
Project is located in a large-scale watershed, a small-scale watershed, lake watershed, or other area ranked high or medium on the NPS Rankings List, where the goals of the project are directly associated with the reason for the ranking on the NPS Rankings List.
- ☐ **D. Amendment of the NPS Rankings List Using State of the Basin Reports**
Project is located within a watershed ranked low or not ranked on the NPS Rankings List, but information in a DNR State of the Basin report indicates a need to amend the NPS Rankings List because the stream or stream segment or lake is being affected by nonpoint sources of pollution.

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Part II. Minimum Qualifications (continued)

- ☐ **E. Amendment of the NPS Rankings List Using Other Data Sources**
Project is located within a watershed ranked low or not ranked on the NPS Rankings List, but adequate data exists to request a ranking of high or medium for a waterbody that is being affected by nonpoint sources of pollution.
- ☐ **F. Sources of Information for Areas Not Included in State of the Basin Reports**
For some border waters, there is no State of the Basin report (i.e., along the Mississippi River or the Great Lakes). For these situations, another governmental document, accepted by the Regional NPS Coordinator, can be used to classify the resource as having a significant nonpoint source pollution impairment.
- ☐ **G. Not Included in Other Categories Above**

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South 41st and Custer Street Water Quality Pond Design and Construction**Part III. Competitive Elements****Question 5. Water Quality Needs**

The water quality category which best identifies the water quality goals for the project directly deals with: (check one)

Note: For border waters where a State of the Basin Report does not exist, another governmental document acceptable to the Regional Nonpoint Source Coordinator may be used to identify the water quality need.

Surface Water Considerations

- ☐ **A. 303(d) Listed Waterbody**
A waterbody (lake or stream) on the latest Clean Water Act (CWA) s. 303(d) List of impaired waters, where the cause of the water quality impairment is nonpoint source pollution, **and** the project will reduce the type of nonpoint source pollutants for which the water is listed.
- ☒ **B. Not Fully Meeting Uses**
A waterbody (lake or stream) identified in a DNR State of the Basin report as not meeting or partially meeting designated uses due to nonpoint sources, but is not on the 303(d) List.
- ☐ **C. Threatened Waterbody**
A waterbody (lake or stream) viewed as "threatened" by nonpoint sources in a DNR State of the Basin report.
- ☐ **D. Outstanding or Exceptional Resource Waters**
Prevention of degradation due to nonpoint sources of outstanding or exceptional resource waters or high quality, recreationally significant waters, but not including waters listed as "threatened."
- ☐ **E. Surface Water Quality**
Prevention of surface water quality degradation due to nonpoint sources. Waters in this category are neither high quality, recreationally significant waters nor "threatened" waters.

Groundwater Considerations*

- ☐ **F. Exceeds Groundwater Enforcement Standard**
Groundwater within the project area where representative information indicates that stormwater pollutants in groundwater exceed the Enforcement Standard (ES).
- ☐ **G. Groundwater Quality (see Attachment H)**
The project area is within a geological area defined in Attachment H as susceptible to groundwater contamination.
- ☐ **H. Exceeds Groundwater Preventive Action Limit**
Groundwater within the project area where representative information indicates that stormwater pollutants in groundwater exceed Preventive Action Limits (PAL).

*Consult the Regional Drinking Water and Groundwater Specialist or the County Extension office.

Bonus Points (see Attachment F):

Yes No
☒ ☐ Water quality goals relate to the control of nonpoint source contaminants in public drinking water supplies.

1. If yes, and the source of drinking water affected by the project area is groundwater, the project protects:

- ☐ a. One wellhead
OR
☐ b. More than one wellhead

2. If yes, and the source of drinking water affected by the project area is surface water, check the source water assessment area in which the project is located:

- | | |
|-----------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Pike River & Creek | <input type="checkbox"/> Twin Rivers |
| <input type="checkbox"/> Root River | <input type="checkbox"/> Kewaunee & Ahnapee |
| <input type="checkbox"/> Oak Creek | <input type="checkbox"/> Menominee River |
| <input type="checkbox"/> Milwaukee River | <input type="checkbox"/> Fish Creek |
| <input type="checkbox"/> Sauk Creek | <input type="checkbox"/> St. Louis & Nemadji River |
| <input type="checkbox"/> Sheboygan & Onion Rivers | <input type="checkbox"/> Lake Winnebago |
| <input checked="" type="checkbox"/> Manitowoc River | |

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Part III. Competitive Elements (continued)

Question 6. Extent of Pollutant Control

Yes No **A. NR 151 Performance Standard for Total Suspended Solids**
☒ ☐ This project focuses on controlling total suspended solids (TSS) in urban runoff that enters waters of the state. Only check "Yes" if the area is covered by an NR 216 permit.

☐ ☒ **B. Other Water Resources Management Priority**
The proposed project addresses a water resources management priority other than the NR 151 performance standard in part A above.

If yes, describe the priority and how the project addresses this priority.

☐ ☒ **C. Planning Data & Source Targeting**
The applicant has quantitative planning information that ranks pollution sources from highest to lowest in severity and the proposed project will manage a pollution source contained in the top 50% of the ranked list. If yes, provide:

a. Description of planning data

b. Name of document(s)

c. Date(s) published

d. Pertinent page numbers

e. A copy of non-state document(s) is available: (check all that apply)

☐ At this website: http://

☐ Attached to this application form.

☐ Contact this person:

Name:

Phone:

Question 7. Consistency with Resource Management Plans & Supporting Regulations

Yes No **A. Consistency with Resource Management Plans**
☐ ☒ The project implements a water quality recommendation from a locally approved resource management plan.

Summarize the water quality recommendation. Cite the name and date(s) of publication of the document.

B. Supporting Regulations

The project is located within an area which has:

- ☐ ☒ 1. One or more regulations that implement the non-agricultural performance standards for developed urban areas under s. NR 151.13.
- ☐ ☒ 2. Other regulations designed to reduce the impact on water quality from new development, other than construction site erosion control or a storm water ordinance.

Describe in relation to the goals of the project.

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Part III. Competitive Elements (continued)

Question 8. Use of Additional Funding

- | Yes | No | NA | |
|-------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | | A. The project is for construction or design and the state share is below the \$150,000 cap. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | B. The project includes property acquisition and the state share is below the \$50,000 cap. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | C. Funding requested is below the 50% cost-share rate. |

Question 9. City of Racine

- | Yes | No | |
|--------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | This is an application from the City of Racine for a project that is necessary for the city to comply with state storm water permitting requirements. |

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Part IV. Eligibility for Multipliers

Completion of this part of the application is optional. However, an applicant can increase the final project score by qualifying for a project multiplier.

Local Implementation Program

Yes No NA

- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | | A. The governmental unit is implementing a pollution prevention information and education program targeted for property owners and other residents. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | B. The governmental unit is implementing a nutrient management plan for municipally owned properties of at least five acres of pervious area where nutrients are applied. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | | C. The governmental unit is implementing a tracking of storm water permitting activity (construction and post-construction) in the governmental unit and can make summary information available to the DNR upon request. |

Optional Additional Information

Carefully review the answers to all of the questions above. Is there additional information that will add to the understanding of this project? If so, describe here.

Applicant Certification

An Authorized Representative must sign and date the application form prior to submittal to the DNR. All four copies must include signatures of the Authorized Representative.

I certify that, to the best of my knowledge, the information contained in this application and attachments is correct and true.

Signature of Authorized Representative

Date Signed

Valerie Mellon, P.E.

Telephone Number (920) 686-6910

E-Mail Address vmellon@manitowoc.org

Mailing Address 900 Quay Street Manitowoc WI 54220

Director of Public Works / City Engineer

Fax Number (920) 686-6906

To be considered for funding, provide the following for each application submitted:

- One copy of the completed application form (DNR Form 8700-299 (R 1/07) with original signature in blue ink;
- Three additional copies of the completed, signed application form;
- One electronic copy of the completed application form on CD or diskette.

All application materials must be postmarked by midnight **April 16, 2007**.

Mail to: Department of Natural Resources

Attn: Kathy Thompson, WT/2

P.O. Box 7921

Madison, WI 53707-7921

Attachments

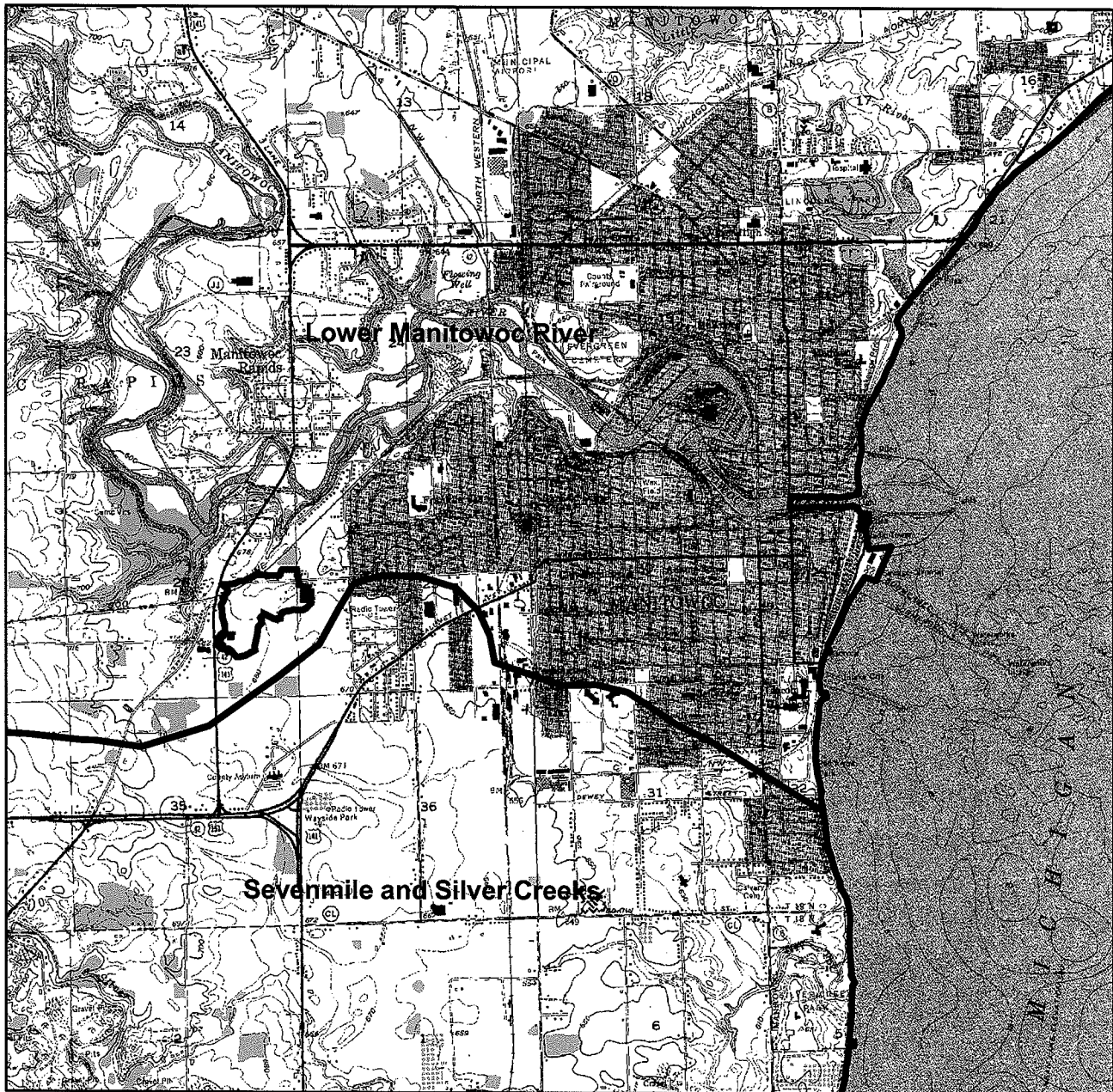
to

**City of Manitowoc, WI
South 41st and Custer Street Water Quality Pond Design and Construction**



UNPS & SW Construction Grant Application

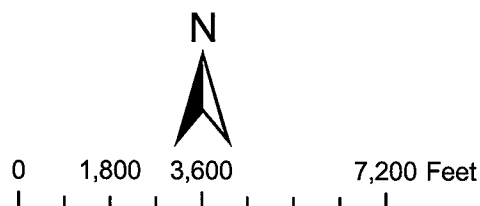
1. USGS Project Location Map
2. Existing Land Use Data
3. Proof of Ownership – S. 41st and Custer Street Pond Parcel Location
4. Letter of Community Support

S. 41st. Street and Custer Street Pond City of Manitowoc, WI



Legend

- Proposed Pond Location
-  Pond Drainage Basin
-  Major Watershed Boundary



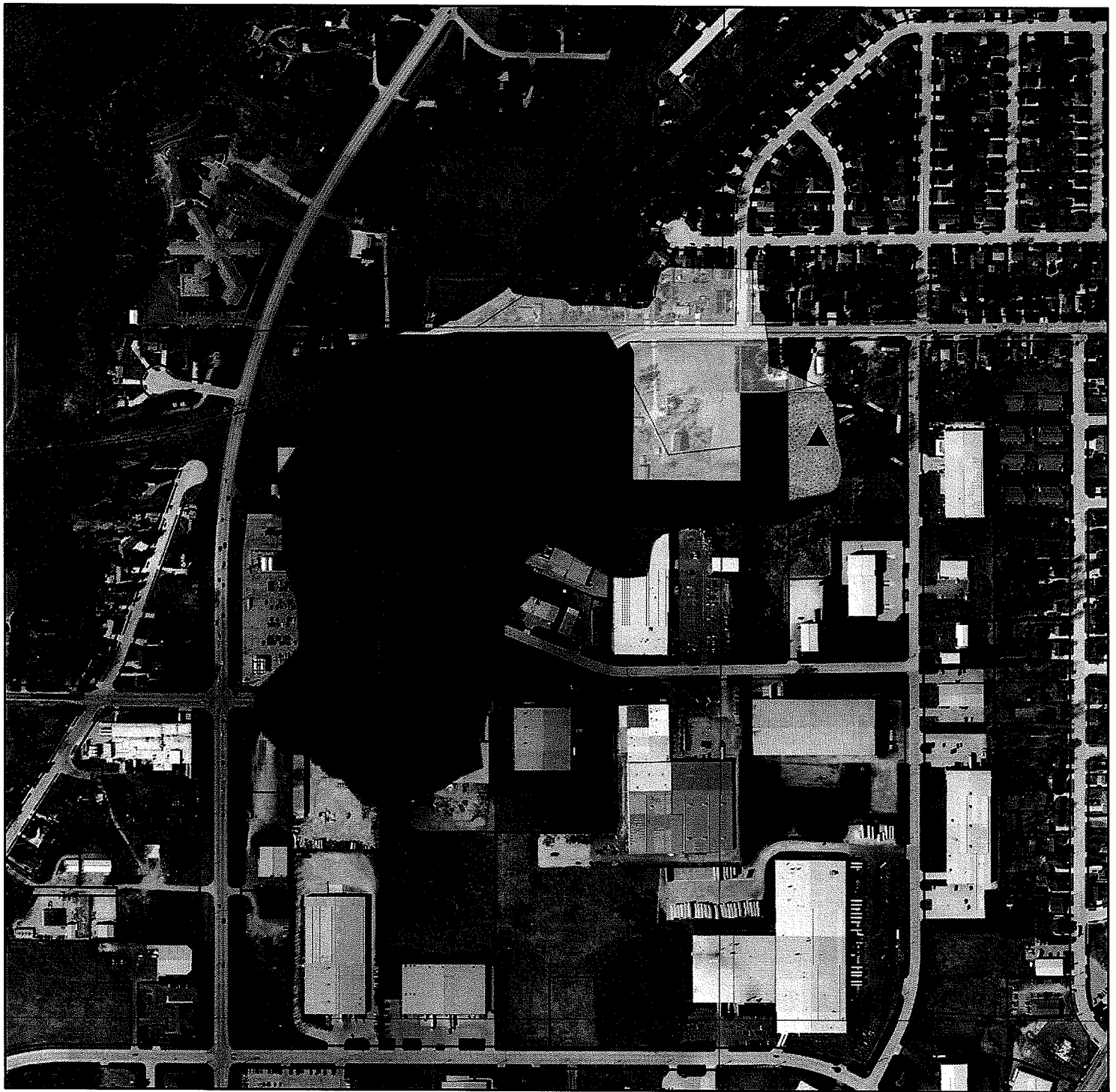
MSA

PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL • REMEDIATION
DEVELOPMENT • ENVIRONMENTAL

S. 41st. and Custer Street Pond

City of Manitowoc, WI

Existing Land Use



Legend

▲ Proposed Pond Location

S. 41st and Custer Street Pond Land Use

Industrial

Residential

Open Space



0 250 500 1,000 Feet

MSA

PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL
DEVELOPMENT • ENVIRONMENTAL

**UNPS and SW Program Construction Grant
City of Manitowoc, Manitowoc County**

**Project Information - Part E
Pro-rating for Existing versus New Development for Urban Projects**

**South 41st & Custer Street Pond Construction
Existing Landuse Information**

Landuse Category	Area
	(acres)
Medium Density Residential	9.6
Medium Density Industrial	41.6
Open Space*	1.5
Total Pond Drainage Area (ac.) =	52.7

* Existing Open Space will remain undeveloped during Future Conditions due to the fact that the 1.5 acre area is the location of the proposed wet detention basin.

SLAMM for Windows Version 9.2.0
 (c) Copyright Robert Pitt and John Voorhees 2003
 All Rights Reserved

final - Output Summary.txt

Part E - Project Info.
 Pro-rating for Ex. versus New Dev.
 Existing - FUTURE
 Flow Data

Data file name: G:\projects\10s\12\120427\SLAMM\LAND USE COMBINATIONS\41st and Custer\final.dat
 Data file description: 41st Street and Custer Construction Grant Pond
 Rain file name: C:\Program Files\winslamm\MSN1981.RAN
 Particulate Solids Concentration file name: C:\Program Files\winslamm\WI_AVG01.psc
 Runoff Coefficient file name: C:\Program Files\winslamm\WI_SL06Dec06.rsv
 Particulate Residue Delivery file name: C:\Program Files\winslamm\WI_DLV01.prr
 Residential Street Delivery file name: C:\Program Files\winslamm\WI_ResandOtherUrbanDec06.std
 Institutional Street Delivery file name: C:\Program Files\winslamm\WI_ComInstIndustDec06.std
 Commercial Street Delivery file name: C:\Program Files\winslamm\WI_ComInstIndustDec06.std
 Industrial Street Delivery file name: C:\Program Files\winslamm\WI_ComInstIndustDec06.std
 Other Urban Street Delivery file name: C:\Program Files\winslamm\WI_ResandOtherUrbanDec06.std
 Freeway Street Delivery file name: C:\Program Files\winslamm\FreewayDec06.std
 Pollutant Relative Concentration file name: C:\Program Files\winslamm\WI_GEO01.ppd
 Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False
 Model Run Start Date: 03/12/81 Model Run End Date: 12/02/81
 Date of run: 04-12-2007 Time of run: 13:30:47
 Total Area Modeled (acres): 52.7204
 Years in Model Run: 0.68

Percent	Runoff	Percent	Particulate	Particulate
Particulate	Volume	Runoff	Solids	Solids
Solids	(cu ft)	volume	Conc.	Yield
Reduction		Reduction	(mg/L)	(lbs)
Source Area Total without Controls:	2.545E+06	0 %	162.7	25828
0 %				
Total Before Drainage System:	2.545E+06	0.00%	162.7	25827
0.00%				
Total After Drainage System:	2.545E+06	0.00%	162.7	25827
0.00%				
Total After outfall Controls:	2.545E+06	0.00%	162.7	25827
0.00%				
Annualized Total After Outfall Controls:	3.715E+06			37708

City of Manitowoc 2007 Property Record						S. 41 st + CUSTER POND	
Parcel Number: 448-010-000				Current Legal Description		Current Acres:	
Current owner: MANITOWOC CITY OF VACANT LOT				MTWC INDUSTRIAL PARK SUBD LOT 10 EXC ALL THAT PART S OF UTIL ESMT DES V1111 P410 SEE NOTE			
2004	2005	2006	2007				
Ownership				Residential Building Information			
Name:		MANITOWOC CITY OF VACANT LOT		Height:			
Mailing Address:		900 QUAY ST		Year Built:			
		MANITOWOC,WI 54220		Square Footage:			
				Total Rooms:			
Property Description				Bedrooms:			
Location:		CLIPPER (REAR LAND) DR		Full Baths:			
Last Sale Date:		12/29/1994		Half Baths:			
Last Recorded Date:				Fireplaces:			
Consideration:				Living Units:			
Deed Vol & Page:		V1111 P0410.. DOC. #		Business Name:			
Legal Description:		MTWC INDUSTRIAL PARK SUBD		Parcel Information			
		LOT 10 EXC ALL THAT PART		Map Number:		2K	
		S OF UTIL ESMT DES V1111		Property Class:		Exempt	
		P410		Roll Type:		REAL	
		SEE NOTE		Neighborhood:		30000	
Notes				Other			
				Fair Market Value			
				Assessment Ratio		77.53	
Assessment Value							
Valuation Date							
Assessment Type		Acres	Land Value	Improved Value	Total Value		
Totals -->							
Payments							
Date	Receipt Number			Amount			
Special Assessment Projects							
Project	Delayed Assessment?			Balance Due			

580

DOCUMENT NO.	533645	STATE BAR OF WISCONSIN - FORM 2 WARRANTY DEED THIS SPACE RESERVED FOR RECORDING DATA
By this deed, Elmer W. Drumm, a single man		RECEIVED FOR RECORD 1978 MAY 5 PM 12 47 NOT A. Brandt NOTARY OF DEEDS
conveys and warrants to City of Manitowoc, Wisconsin, a municipal corporation, for valuable consideration		
the following described real estate in Manitowoc County, State of Wisconsin:		RETURN TO
(See attached Exhibit "A")		Tax Key No.
<p>✓</p> <p>Handwritten: 77-25(A)</p> <p>This <u>is not</u> homestead property. (is) (is not)</p> <p>Exception to warranties:</p> <p>Dated this <u>15th</u> day of <u>March</u>, 19 <u>78</u></p> <p>_____ (SEAL) Elmer W. Drumm (SEAL)</p> <p>_____ (SEAL)</p>		
<p>AUTHENTICATION</p> <p>Signatures authenticated this _____ day of _____, 19 _____</p> <p>TITLE: MEMBER STATE BAR OF WISCONSIN (If not, authorized by §706.06, Wis. Stats.)</p> <p>This instrument was drafted by _____</p>		<p>ACKNOWLEDGMENT</p> <p>STATE OF WISCONSIN } ss. Manitowoc County, } Personally came before me, this <u>15th</u> day of <u>March</u>, 1978, the above named <u>Elmer W. Drumm</u></p> <p>_____ Nicholas P. Levendusky Notary Public, Manitowoc County, Wis. My Commission is permanent. (If not, state expiration date: <u>March 15</u>, 19 <u>81</u>.)</p>

V. 600 P. 580

PROOF OF OWNERSHIP

582

533645

Elmer W. Drumm to City of Manitowoc

EXHIBIT "A"

A tract of land located in the Manitowoc Industrial Park Subdivision located in the Southwest 1/4 of Section 25, Township 19 North, Range 23 East and in the Southeast 1/4 of Section 26, Township 19 North, Range 23 East. City of Manitowoc, Manitowoc County, Wisconsin as recorded in Cabinet C of Plats page 45 at the office of the Manitowoc County Register of Deeds and more particularly described as follows:

All of Lots 2, 3, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16 and the North 35 feet of Lot 4 and all of Outlots 1 and 2 of the Manitowoc Industrial Park Subdivision as recorded in Cabinet C of plats page 45 in the office of the Manitowoc County Register of Deeds.
Except parcels conveyed for street purposes.

This Warranty Deed is given pursuant to Land Contract dated February 6, 1975 and recorded on March 4, 1975 in the office of the Manitowoc County Register of Deeds in Volume 532 of Records at page 40 as Document #497748, and this Warranty Deed and Warranty Deeds which have previously been executed pursuant to said Land Contract are intended to convey and warrant to the City of Manitowoc all real estate which is described in said Land Contract.

V. 600 P. 582

RECEIVED FOR RECORD

1978 JUL 5 PM 12 47
J. R. Smith
Manitowoc County Register of Deeds

WARRANTY DEED

*SPLIT
for record
1-29-96*

By this Deed, City of Manitowoc, Wisconsin, a municipal corporation, Grantor conveys and warrants to Interstate Welding Sales Corporation, Grantee, for valuable consideration of \$22,135.00 the following described real estate in Manitowoc County, State of Wisconsin:

A parcel of land located in Lot Numbered Ten (10) of Manitowoc Industrial Park Subdivision in the City of Manitowoc, according to the Recorded Plat of said Subdivision, described as follows:

Commencing at the Southeast corner of said Lot 10, being the point of real beginning, thence N. 00° 40' 53" E., 607.00 feet to the South line of a 70 foot utility easement, thence S. 83° 34' W., 171.42 feet along the South line of said utility easement to the West line of said Lot 10, thence S. 00° 40' 53" W., 588.32 feet to the Southwest corner of said Lot 10 also being the North right-of-way line of Clipper Drive, thence N. 89° 49' 15" E., 170.11 feet along said North right-of-way line to the Southeast corner of said Lot 10 also the point of real beginning.

Said parcel contains 2.33 acres, more or less.

Exempt from transfer fee and Wisconsin real estate transfer tax return, Wis. Stat. §77.25(2r).

This is not homestead property.

Tax Parcel No. 448-010-000-9

Exempt from weatherization standards, Exclusion Code W-7.

Exceptions to warranties: Any easements, agreements, restrictions or reservations of record.

In Witness Whereof, the City of Manitowoc has caused this Warranty Deed to be signed by Kevin M. Crawford, Mayor and June E. Fetzer, its City Clerk, at Manitowoc, Wisconsin, and its corporate seal to be affixed to this Warranty Deed, this 31st day of December, 1994.

CITY OF MANITOWOC

RECEIVED FOR RECORD

VOL. 1111 PAGE 410

'94 DEC 29 AM 10 24

MANITOWOC COUNTY, WI
PRESTON JONES
REGISTER OF DEEDS

By: [Signature]
Kevin M. Crawford, Mayor

Attest:

[Signature]
June E. Fetzer, City Clerk

STATE OF WISCONSIN)

) SS.

MANITOWOC COUNTY)

Personally came before me this _____ day of _____, 1994, Kevin M. Crawford, Mayor and June E. Petzer, City Clerk, to me known to be the persons who executed the foregoing instrument, and to me known to be such Mayor and City Clerk of the City of Manitowoc and acknowledged that they executed the foregoing instrument as such Officers as the Warranty Deed of said City, by its authority.

Notary Public
Manitowoc County, Wisconsin
My commission (expires) (is):

This instrument drafted by
Patrick L. Willis, City Attorney

SUBDIVISION OF THE SW 1/4 OF SECTION 25, T.19N., R.23E.

MANITOWOC INDUSTRIAL PARK SUBDIVISION

LOCATED PARTLY IN LOTS 20-26 OF THE SUBDIVISION OF THE SW 1/4 OF SECTION 25, T.19N., R.23E., AND PARTLY IN THE NE 1/4 OF THE SE 1/4 AND PARTLY IN THE SE 1/4 OF THE SE 1/4 SECTION 26, T.19N., R.23E., CITY OF MANITOWOC, MANITOWOC COUNTY, WISCONSIN

CURVE NO.	RADIUS	LENGTH	CHORD	BEARING	ANGLE	ARC LENGTH
1	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
2	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
3	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
4	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
5	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
6	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
7	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
8	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
9	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
10	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
11	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
12	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
13	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
14	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
15	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
16	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
17	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
18	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
19	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
20	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
21	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
22	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
23	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
24	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
25	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08
26	100.00	100.00	100.00	90°00'00"	90°00'00"	157.08

LEGEND
0 2" X 30" IRON PIPE WEIGHING 3.65 LBS. PER LIN FOOT
ALL OTHER LOT CORNERS
PIPED WITH 1 1/2" IRON PIPE WEIGHING 1.3 LBS PER LIN FOOT
JAMES UTILITY EASEMENT
NOTE:
ALL MEASUREMENTS HAVE BEEN MADE TO THE NEAREST HUNDREDTH OF A FOOT
ALL BEARINGS ARE REFERENCED TO THE TRUE MERIDIAN
SECTION 25 AS NO 40°53'E ASSUMED

LOCATION SKETCH
SCALE IN FEET
0 100 200 300

TABLE
CURVE DATA
CURVE NO. RADIUS LENGTH CHORD BEARING ANGLE ARC LENGTH

SUBDIVISION OF THE SW 1/4 OF SECTION 25, T.19N., R.23E.

LOT 12 6.28 AC.

LOT 11 3.59 AC. TO EASEMENT

LOT 10 2.33 AC. TO EASEMENT

LOT 9 2.15 AC. TO EASEMENT

LOT 8 3.30 AC. TO EASEMENT

LOT 7 2.32 AC. TO EASEMENT

LOT 6 1.83 AC.

LOT 5 1.33 AC.

LOT 4 1.05 AC. TO EASEMENT

LOT 3 0.99 AC. TO EASEMENT

LOT 2 0.87 AC.

LOT 1 0.86 AC.

LOT 15 6.88 AC.

LOT 16 6.76 AC.

LOT 17 6.58 AC.

LOT 18 7.07 AC.

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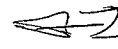
LOT 210 7.07 AC.

LOT 211 7.07 AC.

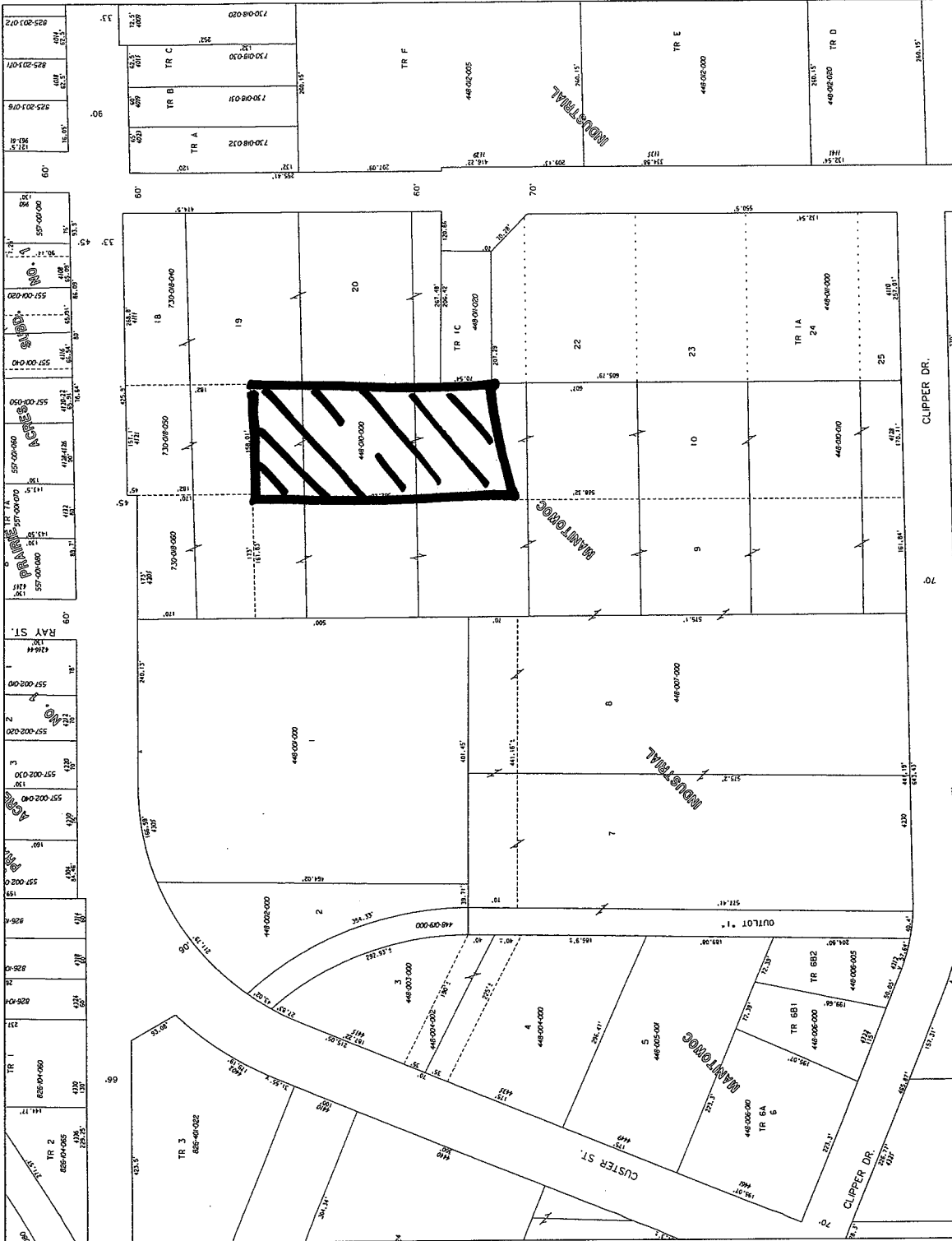
LOT 212 7.07 AC.

LOT 213 7.07 AC.

<



CITY OF MANITOWOC
1"=150'



April 10, 2007

City of Manitowoc
Greg Minkel, Dept. Dir. of Public Works
900 Quay Street
Manitowoc, WI 54220

Dear Greg,

As long time residents of Manitowoc who are concerned with environmental issues, we support the city in its efforts to secure a Wisconsin Department of Natural Resources Urban Nonpoint Source and Storm Water Construction Grant.

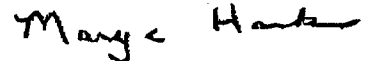
We support the City's effort to meet the DNR's requirements for 20% reduction in total suspended solids (TSS) by 2008 & 40% in TSS reduction by 2013.

The city's proposed stormwater pond near S41st & Custer St., will be a positive step in helping to achieve the goals for reducing total suspended solids (TSS).

With anticipation of the undertaking of this work, we are in full support of the City of Manitowoc and their efforts to achieve the above mentioned goals.

Sincerely,


Ron and Marge Hacker



Smithsonian Institution
Affiliations Program**Board of Directors**

Tom Jagemann – President
Jack Gadzala – Vice President
James Goonan – Secretary
Carl Laveck – Treasurer
Mary Beth Emmerichs
Kenneth Foster, M.D.
Pat Gadow

Scott Habermann

Bill Hackney

Bob Herre

Beth Kohlmann

Bob Melzer

Dawn Moon-Kopetsky

John Nordstrom

Jerry Pilger

Joseph Trader, M.D.

Executive Director

Norma Bishop

Honorary Council

Honorable Tom Petri
House of Representatives

Honorable Alan J. Lasee
Former President, Wisconsin
State Senate

Terry D. Growcock
Chairman and CEO
Manitowoc Company, Inc.

RADM Henry McKinney
(USN Ret.)
Former Commander Submarine
Force, U.S. Pacific Fleet

Jim Ruffolo
Executive Vice President
Burger Boat Company

April 11, 2007

Valerie A. Mellon, P.E.
Director of Public Works & City Engineer
City of Manitowoc
900 Quay Street
Manitowoc, WI 54220

Dear Ms. Mellon:

The Wisconsin Maritime Museum commends the City of Manitowoc for its application to the Wisconsin Department of Natural Resources (WDNR) for an Urban Nonpoint Source and Storm Water Construction Grant.

In 2006, the Museum and City formed a partnership to foster a Manitowoc River stewardship group with the assistance of a WDNR River Protection (Planning) Grant. This spring, the volunteer corps formed as a result of that partnership will stencil storm drains and train to monitor water quality in the Manitowoc River. The Museum believes that a community's environmental stewardship begins with awareness and education; however, municipalities and other government agencies must take action as well. The City of Manitowoc is taking action to protect the river and our environment through this application.

We wholeheartedly support the City of Manitowoc's application. The construction of storm water retention ponds will help the city meet mandated goals for the reduction of total suspended solids in the river, a necessary step toward enhancing the entire riparian environment.

We believe that the entire community will benefit from this project. It is an important step in saving the river, our lakes, and our beaches—the irreplaceable natural resources that gave rise to our maritime heritage.

We sincerely hope that Wisconsin DNR will place this application at the top of the priority list.

Sincerely,


Norma Bishop
Executive Director

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